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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference AE-0022 IB	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/RU 2004/000329	International filing date (day/month/year) 20 August 2004 (20. 08. 2004)	Priority date (day/month/year) 25 August 2003 (25. 08. 2003)
International Patent Classification (IPC) or national classification and IPC H04N 7/08, 7/18, G06F 17/60, A61B 5/04		
Applicant NAZDRATENKO Andrey Evgenievich et al.		

1. This report is the international preliminary examination report, established by the International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

3. This report is also accompanied by ANNEXES, comprising:

a. ☒ (sent to the applicant and to the International Bureau) a total of 24 sheets, as follows:

☒ sheets of the description, claims and/or drawings which have been amended and are the basis of the report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).

☐ Sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.

b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))
_____, containing a sequence listing and/or tables related thereto, in electronic form
only, as indicated in the Supplemental Box Relating to Sequence Listing (see
Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

☒ Box No. I Basis of the opinion

☐ Box No. II Priority

☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

☐ Box No. IV Lack of unity of invention

☒ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

☐ Box No. VI Certain documents cited

☐ Box No. VII Certain defects in the international application

☐ Box No. VIII Certain observations on the international application

Date of submission of the demand
29 December 2004 (29. 12. 2004)

Date of completion of this report
01 June 2005 (01. 06. 2005)

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Box No. I Basis of the opinion

1. With regard to the language, this report is based on:

- ☒ the international application in the language in which it was filed
- ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of:
- ☐ international search (Rules 12.3(a) and 23.1(b))
- ☐ publication of the international application (Rule 12.4(a))
- ☐ international preliminary examination (Rules 55.2(a) and/or 55.3(a))

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed.")*:3. ☐ the international application as originally filed/furnished

- ☒ the description:
- pages _____ 1-6 _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____

- ☒ the claims:
- pages _____ as originally filed/furnished
- pages* _____ 7-8 _____ as amended (together with any statement) under Article 19
- pages* _____ 9-10 _____ received by this Authority on 11 May 2005
- pages* _____ received by this Authority on _____

- ☒ the drawings:
- pages _____ 1/1 _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____

☐ a sequence listing and/or any related table(s) see Supplemental Box Relating to Sequence Listing.3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims. Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (specify): _____
- ☐ any table(s) related to the sequence listing (specify): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims. Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (specify): _____
- ☐ any table(s) related to the sequence listing (specify): _____

* If item 4 applies, some or all of those sheets may be marked "superseded".

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Box No. V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-25	YES
	Claims		NO
Inventive Step (IS)	Claims	1-25	YES
	Claims		NO
Industrial Applicability (IA)	Claims	1-25	YES
	Claims		NO

2. Citations and explanations (Rule 70.7):

During the preparation of the Examination Report there were used the following sources of information from the Search Report:

- D1 – RU 2157954 C1, 27.09.2000;
- D2 – RU 2125399 C1, 27.01.1999;
- D3 – US 2003 0135 126 A1, 17.07.2003;
- D4 – US 6490561 B1, 13.12.2002;
- D1 – RU 2203614 C1, 10.05.2003;
- D2 – RU 2151466 C1, 20.06.2000.

In D1 there are described a system and method for creation of videoprograms. The system comprises a videocamera in order to shoot a participant of the videoprogram, a videoprogram generating means, including an image of the participant, shot by means of videocamera, measuring means to measure data of reflex psychophysiological reactions of the participant in response to verbal influences, mixing means in order to add parameters of the measured data of the reflex psychophysiological reactions to the videoimage of the videoprogram.

In D2 there is described a tool for an information analysis, which comprises a sensor unit, a functional transformer unit, a display unit, a reproducing unit as well as it is made of being capable to use a mixing means to add parameters of the measured data, which includes a modifying unit in order to modify the videoimage and/or its soundtrack in response to a change of the parameters of the measured data after the verbal influence in the form of a testing question, and mixing means in order to add a corresponding text to the videoprogram videoimage.

In D3 there is described a detector for measuring electrocardiogram as well as amplitude-frequency characteristics of voice sound in the same time.

In D4 there are described a method and apparatus for a speech transcription and for a transformation of the voice sound into a text.

In D5 there is described a device for controlling and evaluation physiological processes and it comprises various measuring means, which may be made in the form of stress-detector, strain-measuring platform or polygraph.

In D6 there is described a device for a storage of information, which is contained in an videoimage on a display monitor. This device has a mixing means in order to add an acoustic signal to a videoimage.

None of the mentioned sources of information describes and supposes using upon the creation of the videoprograms in accordance with Claims 1 to 11 a mixing means in order to add parameters of the measured data of the reflex psychophysiological reaction to the videoprogram videoimage, which includes a modifying unit in order to change amplitude-frequency characteristics of the recorded sound of the voice of the participant in response to a change of the parameters of the measured data, which corresponds to dishonesty of the participant after the verbal influence upon him such a testing question.

None of the mentioned sources of information describes and supposes using upon the creation of the videoprograms in accordance with Claims 12 to 18 a videoprogram soundtrack modifying,

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:

which has been accomplished by means of modifying a soundtrack of the videoprogram, that has been carried out by means of changing amplitude-frequency characteristics of the recorded sound of the voice of the participant of the videoprogram in response to a change of the parameters of the measured data, which corresponds to dishonesty of the participant of the videoprogram after the verbal influence upon him such as a testing question.

None of the mentioned sources of information describes and supposes using in the system for creation of videoprograms in accordance with Claims 19 to 25 a mixing means in order to add parameters of the measured data of the reflex psychophysiological reaction to the videoimage of the videoprogram, which includes a videoimage modifying unit, that is capable to modify the videoprogram participant videoimage and /or the image of the appropriate text, and/or other objects of the videoimage of the videoprogram by means of change of their form and/or color, and/or luminance, and/or contrast and /or frequency of their occurrence.

Therefore, Claims 1 to 25 of the represented Patent Claims meet the criterion of novelty.

None of combinations of the mentioned sources of information gives a combination of essential features of the subject-matters, which have been declared in accordance with Claims 1 to 25, but the usage of the mentioned mixing means for the parameters upon a creation of the videoprograms by means of changing the amplitude-frequency characteristics of the recorded sound of the voice of the participant of the videoprogram in response to a change of the parameters of the measured data, corresponding to dishonesty of the participant of the videoprogram and by means of the modifying the videoprogram participant videoimage ,and /or the videoimage of the appropriate text and/or other objects of the videoimage of the videoprogram by means of change of their form and/or color, and/or luminance, and/or contrast and /or frequency of their occurrence in order to simplify a perception and analysis of the measured psychophysiological human reactions in response to a verbal influence is not obvious one for a person with the ordinary skills in the art, therefore, Claims 1 to 25 of the represented Patent Claims meet the criterion of.

All the Claims 1 to 25 of the represented Patent Claims meet the criterion of industrial applicability.

Claims

1. A system for creation of videoprograms comprising a videocamera to shoot a participant of the videoprogram, generating means to generate a videoimage of the videoprogram including an image of the participant shot by the videocamera, measuring
5 means to measure data of reflex psychophysiological reactions of the participant in response to verbal influences during the shooting of the participant, mixing means to add parameters of the measured data of the reflex psychophysiological reactions to the videoimage of the videoprogram, wherein in addition the system comprises a microphone to record a sound of a voice of the participant during the shooting of the participant,
10 combining means to combine the recorded sound of the voice of the participant with the image of the participant, and the mixing means includes a modifying unit to change amplitude-frequency characteristics of the recorded sound of the voice of the participant in response to a change of the parameters of the measured data which corresponds to dishonesty of the participant after the verbal influence such as a testing question.

15 2. The system of claim 1, wherein the mixing means includes an additional modifying unit to modify videoimage of the videoprogram in response to the change of the parameters of the measured data.

3. The system of claim 2, wherein the additional modifying unit is capable to modify the image of the participant and/or another object of the videoimage of the
20 videoprogram in manner to change its form and/or color and/or luminance and/or contrast and/or frequency of occurrence.

4. The system of claim 2, wherein the additional modifying unit is capable to form a separate animated image which reflects a level of the change of the parameters of the measured data.

25 5. The system of claim 2, wherein it is a transforming means to transform the sound of the voice of the participant into an appropriate text and to add the appropriate text as its image to the videoimage of the videoprogram.

6. The system of claim 5, wherein the additional modifying unit is capable to modify the image of the appropriate text in manner to change its form and/or color and/or
30 luminance and/or contrast and/or frequency of occurrence.

7. The system of claim 1, wherein the measuring means is carried out as a voice stresses-detector reacting to the sound of the voice of the participant recorded by the microphone.

IPEA/RU**AMENDED SHEET (ARTICLE 19)**

Post Approval Control

8. The system of claim 1, wherein the measuring means is carried out as a strain-measuring platform.

9. The system of claim 1, wherein the measuring means is carried out as a polygraph.

5 10. The system of claim 1, wherein the measuring means includes a sensor unit to measure physiological parameters of an organism of the participant which give in to measuring and reflect the reflex psychophysiological reaction of the participant after the testing question.

10 11. The system of claim 10, wherein the sensor unit comprises a gauge or gauges chosen of a following group: a gauge of a pulse wave, a gauge of a pulse rate, a gauge of frequency of respiration, a gauge of bioelectric signals of a brain, and a gauge of electric conduction of a skin.

15 12. A method for creation of videoprograms comprising the steps of: videoshooting a participant of the videoprogram; measuring data of reflex psychophysiological reactions of the participant in response to verbal influences during the videoshooting of the participant; generating a videoimage of the videoprogram including a shot image of the participant; adding parameters of the measured data of the reflex psychophysiological reactions to the videoimage of the videoprogram, wherein in addition there are the steps of: recording a sound of a voice of the participant during the videoshooting of the participant; combining the recorded sound of the voice of the participant with the image of the participant; and modifying a soundtrack of the videoprogram which is carried out by means of changing amplitude-frequency characteristics of the recorded sound of the voice of the participant in response to a change of the parameters of the measured data which corresponds to dishonesty of the participant after the verbal influence such as a testing question.

25 13. The method of claim 10, wherein it is an additional step of modifying the videoimage of the videoprogram in response to the change of the parameters of the measured data.

30 14. The method of claim 13, wherein the modifying the videoimage is carried out as modifying the image of the participant and/or another object of the videoimage of the videoprogram by means of changing their form and/or color and/or luminance and/or contrast and/or frequency of occurrence.

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15. The method of claim 13, wherein it is another additional step of transforming the sound of the voice into an appropriate text and further adding the appropriate text as its image to the videoimage of the videoprogram.

16. The method of claim 15, wherein the modifying the videoimage is carried out as
5 modifying the image of the appropriate text by means of changing their form and/or color and/or luminance and/or contrast and/or frequency of occurrence.

17. The method of claim 13, wherein the modifying the videoimage is carried out as forming a separate animated image which reflects a level of the change of the parameters of the measured data.

10 18. The method of claim 12, wherein the measuring is carried out as measuring physiological parameters of an organism of the participant which give in to measuring and reflect the reflex psychophysiological reaction of the participant after the testing question.

19. A system for creation of videoprograms comprising a videocamera to shoot a participant of the videoprogram, generating means to generate a videoimage of the video-
15 program including an image of the participant shot by the videocamera, measuring means to measure data of reflex psychophysiological reactions of the participant in response to verbal influences during the shooting of the participant, mixing means to add parameters of the measured data of the reflex psychophysiological reactions to the videoimage of the videoprogram, wherein in addition the system comprises a microphone to record a sound
20 of a voice of the participant during the shooting of the participant, combining means to combine the recorded sound of the voice of the participant with the image of the participant and/or to transform the sound of the voice into an appropriate text and to add the appropriate text as its image to the videoimage of the videoprogram, and the mixing means includes a modifying unit to modify the videoimage of the videoprogram in response to a
25 change of the parameters of the measured data after the verbal influence such as a testing question, the modifying unit is capable to modify the image of the participant and/or the image of the appropriate text and/or other objects of the videoimage of the videoprogram in manner to change their form and/or color and/or luminance and/or contrast and/or frequency of occurrence, and said means are incorporated in one design of the videocamera.

30 20. The system of claim 19, wherein the modifying unit also is capable to form a separate animated image which reflects a level of the change of the parameters of the measured data.

21. The system of claim 19, wherein the mixing means further includes a modifying unit to modify a soundtrack of the videoprogram, and the modifying unit is capable to

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change amplitude-frequency characteristics of the recorded sound of the voice of the participant in response to a change of the parameters of the measured data after the verbal influence.

22. The system of claim 19, wherein the measuring means is carried out as a voice stresses-detector reacting to the sound of the voice of the participant recorded by the microphone.

23. The system of claim 19, wherein the measuring means is carried out as a polygraph.

24. The system of claim 19, wherein the measuring means includes a sensor unit to measure physiological parameters of an organism of the participant which give in to measuring and reflect the reflex psychophysiological reaction of the participant after the testing question.

25. The system of claim 24, wherein the sensor unit comprises a gauge or gauges chosen of a following group: a gauge of a pulse wave, a gauge of a pulse rate, a gauge of frequency of respiration, a gauge of bioelectric signals of a brain, and a gauge of electric conduction of a skin.

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